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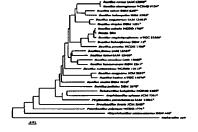
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(54) BACILLUS SUBTILISVAR. CHUNGKOOKJANG (KTCT 0697BP) PRODUCING POLY-GAMMA-GLUTAMIC ACID OF HIGH MOLECULAR WEIGHT

(57) Abstract:

PURPOSE: Provided is salt tolerant strain, Bacillus subtilisvar. chungkookjang (KTCT 0697BP) isolated from Korean traditional fermented food, chungkookjang. And poly-gamma-glutamic acid is also provided which is edible, water-soluble, anionic, biodegradable and produced from the strain, and which is used in cosmetics, absorbent, biodegradable plastic materials.

CONSTITUTION: A Bacillus subtilisvar. chungkookjang (KTCT 0697BP) is isolated from chungkookjang. A preparation method of poly-gamma-glutamic acid from the strain comprises the steps of: (a) inoculating and cultivating Bacillus subtilisvar. chungkookjang (KTCT 0697BP) in a



medium to produce poly-gamma-glutamic acid and then, adding acids until PH becomes 2 to 4, to obtain liquid that includes poly-gamma-glutamic acid; (b) removing polysaccharide from the resultant liquid, followed by extracting with solvent and centrifuging it to obtain precipitate of poly-gamma-glutamic acid; (c) dissolving the precipitant by adding distilled water, then degrading exogenous protein by proteinase; and (d) dialyzing it to remove free glutamic acid and concentrating it.

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